

ABSTRACT

Disclosed is an electronic ballast for a fluorescent lamp having a high capacitance capable of turning on lamps of different capacitances (36W, 18W), or selectively two lamps of the same capacitance or one lamp, using one circuit, by replacing a lamp driving unit with an integrated circuit (IC). The electronic ballast comprises a power separator for separating a DC power into a lamp power and a circuit driving power, a constant-voltage unit for making the circuit driving power a constant voltage, a switching signal generator that is driven by the power supplied from the constant-voltage unit, for generating a pulse width modulation (PWM) signal corresponding to a capacitance of a lamp connected thereto to lamps having different capacitance or a plurality of lamps, a first transformer for inducing the signal outputted from the switching signal generator to the secondary side, first and second field effect transistors for performing a switching operation corresponding to the output signal from the secondary side of the first transformer in order to generate a high voltage for turning on a fluorescent lamp, and a plurality of bulb for turning on the lamp (CF lamp) using the high voltage generated by the second and third transformers.